





Created: 3 weeks, 5 days after earthquake

100

**PAGER** 

Version 5

10,000

100,000

1,000

# M 5.2, near the east coast of Honshu, Japan

Origin Time: 2023-09-08 09:28:48 UTC (Fri 18:28:48 local) Location: 38.9143° N 142.1007° E Depth: 40.5 km

**Estimated Fatalities** 100 10,000 1,000

and economic losses. There is a low likelihood of casualties and damage.

Green alert for shaking-related fatalities Estimated Economic Losses 65% 30%

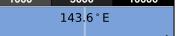
**Estimated Population Exposed to Earthquake Shaking** 

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	7,803k	3k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.

## Population Exposure

population per 1 sq. km from Landscan



## **Structures**

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and reinforced/confined masonry construction.

## **Historical Earthquakes**

Date	Dist.	Mag. Max		Shaking	
(UTC)	(km)		MMI(#)	Deaths	
1994-12-28	213	7.7	VII(130k)	3	
1978-06-12	77	7.6	VIII(1,304k)	22	
1983-05-26	310	7.7	VII(174k)	104	

Recent earthquakes in this area have caused secondary hazards such as landslides and fires that might have contributed to losses.

# Selected City Exposure

from GeoNames.org MMI City Population Ш Ofunato 35k Ш Tono 27k Ш Yamada 20k Ш Kamaishi 43k Ш Mizusawa 61k Ш Ichinoseki 63k Ш Morioka 295k Ш Sendai 1,063k Ш Akita 326k Ш **Fukushima** 294k П Yamagata 255k

bold cities appear on map.

(k = x1000)

0	5	50	100	500	1000	5000	10000
=	Hirds4Qi.9°	E	14 fachinohe	2.2°E		143.6°E	1/ 1
	Odate						
Tenno Akitas	hi	Morioka	Miya	ıko			
gc.2°N S⊦	iinjo	Kitakami Miz <b>w</b> awa Ichinosek Furukawa	13/				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
38.1°N		Ishino ndai	omaki				,
Yonez	awa Fukushin a						
0	Koriyama 50	100				Car	

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.